TEST REPORT ON COARSE AGGREGATES

Date: 08-06-18

Lab ID	:	CP-2018-06-04-07
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-06-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	208	208	4.2	95.8	90-100
3	10 mm	2787	2995	59.9	40.1	25-55
4	4.75 mm	1804	4799	96.0	4.0	0-10
5	Pan	201	5000	100	0	_

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-06-04-07 Date: 08-06-18

Sample ID No : 2018-06-04-07 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 08-06-18

Lab ID	:	CP-2018-06-04-07
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-06-18
Sample ID No	:	2018-06-04-07 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-06-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	21	21	2.1	97.9	90-100	90-100	90-100	95-100
3	2.36 mm	133	154	15.4	84.6	60-95	75-100	85-100	95-100
4	1.18 mm	179	333	33.3	66.7	30-70	55-90	75-100	90-100
5	600 micron	245	578	57.8	42.2	15-34	35-59	60-79	80-100
6	300 micron	182	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	178	938	93.8	6.2	0-10	0-10	0-10	0-15
8	Pan	62	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

b ID : CP-2018-06-04-07 Date: 08-06-18

ample ID No : 2018-06-04-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.08	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	6.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/06/2018

Lab ID	:	CP-2018-06-15-07
Customer	:	Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	T- Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.
Agency	:	Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.
Customer's Reference	:	EE/DD/WO/395/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-06-18
Sample ID No	:	2018-06-15-07 /01
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/06/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/06/2018	18/06/2018	151.10 X 149.18 X 150.30	22542	8.217	292.0	13.0	12.6
2	PCC	M15	11/06/2018	18/06/2018	149.46 X 151.04 X 150.00	22574	8.168	278.8	12.4	
3	PCC	M15	11/06/2018	18/06/2018	150.68 X 149.89 X 151.37	22586	8.283	282.6	12.5	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-06-15-07 **Date: 09/07/2018**

Customer : Assistant Executive Engineer, T- Dasarahalli Sub Division, BBMP, Bangalore.

Address : T- Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvement and Construction of Culverts in Bagalagunte in Ward No. 14.

Agency : Sri. Madhu. MR, No, 135, 13th Cross, 5th Main, AGB Layout, Chikkabanavara, Bengaluru-90.

Customer's Reference : EE/DD/WO/395/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-06-18

Sample ID No : 2018-06-15-07 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	11/06/2018	09/07/2018	151.19 X 149.00 X 150.61	22528	8.286	392.8	17.4	17.5
2	PCC	M15	11/06/2018	09/07/2018	150.85 X 151.20 X 151.05	22808	8.557	396.6	17.4	
3	PCC	M15	11/06/2018	09/07/2018	149.64 X 150.67 X 151.22	22545	8.152	401.1	17.8	

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